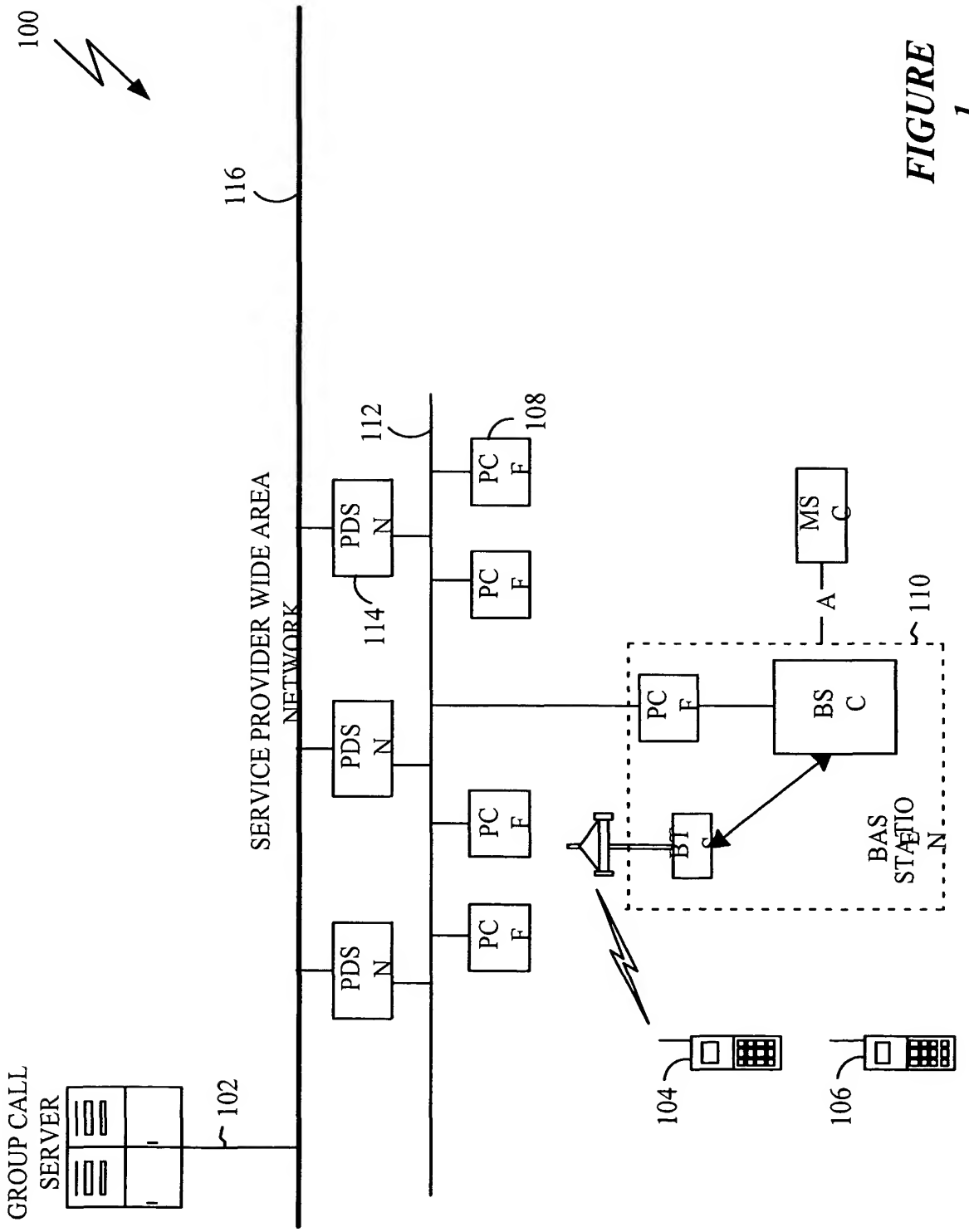
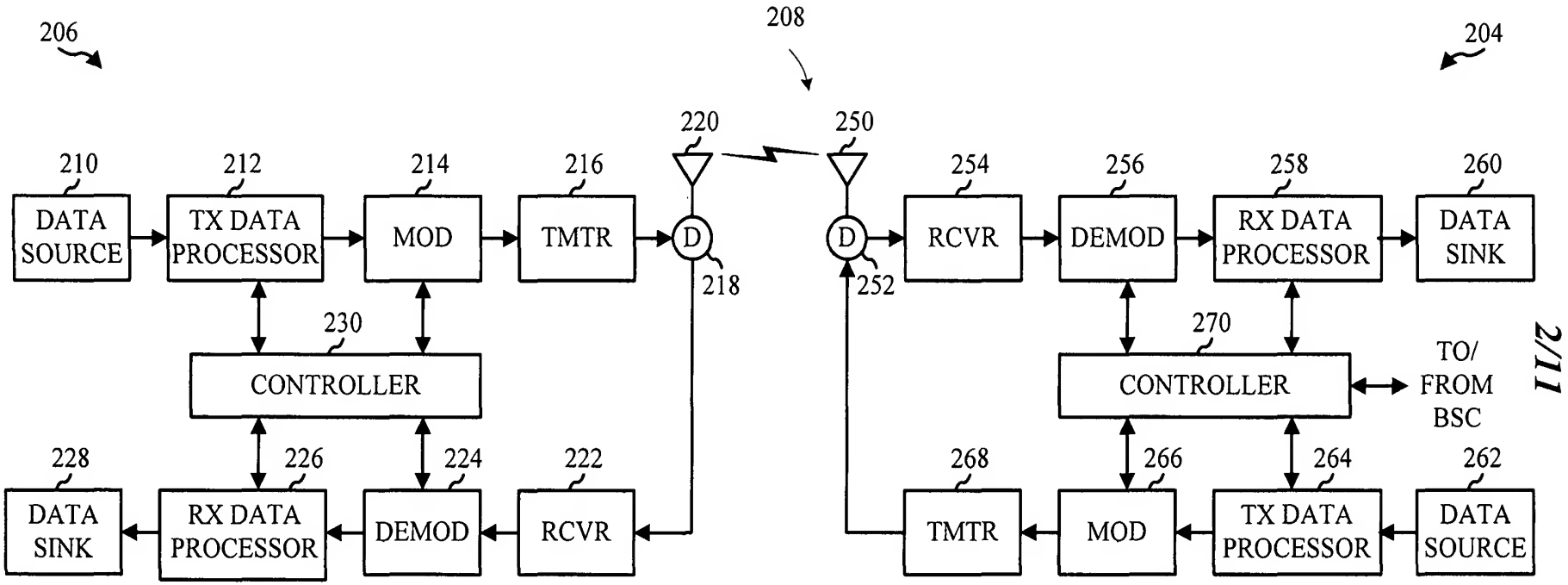

100
116
SERVICE PROVIDER WIDE AREA NETWORK
GROUP CALL SERVER
102
PDS N
PDS N
PDS N
112
114
PC F
PC F
PC F
PC F
PC F
108
MS C
A
110
BS C
BT C
BAS STATIO N
104
106

FIGURE 1


206
208
204
220
250
210
212
214
216
254
256
258
260
DATA SOURCE
TX DATA PROCESSOR
MOD
TMTR
D
218
D
252
RCVR
DEMOD
RX DATA PROCESSOR
DATA SINK
230
270
CONTROLLER
CONTROLLER
TO/ FROM BSC
228
226
224
222
268
266
264
262
DATA SINK
RX DATA PROCESSOR
DEMOD
RCVR
TMTR
MOD
TX DATA PROCESSOR
DATA SOURCE

2/11

FIGURE 2

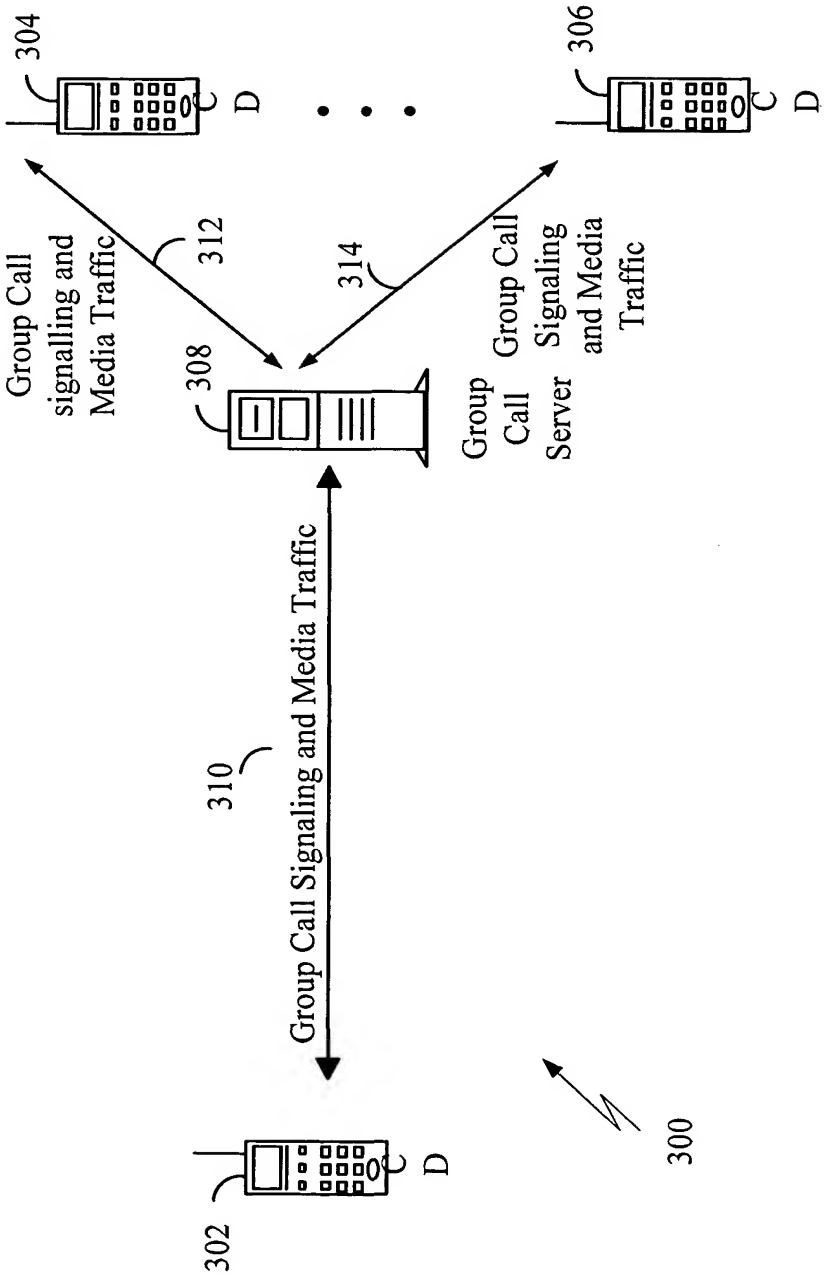

304
306
C
D
Group Call signalling and Media Traffic
312
314
Group Call Signaling and Media Traffic
308
Group Call Server
310
Group Call Signaling and Media Traffic
302
300

FIGURE 3

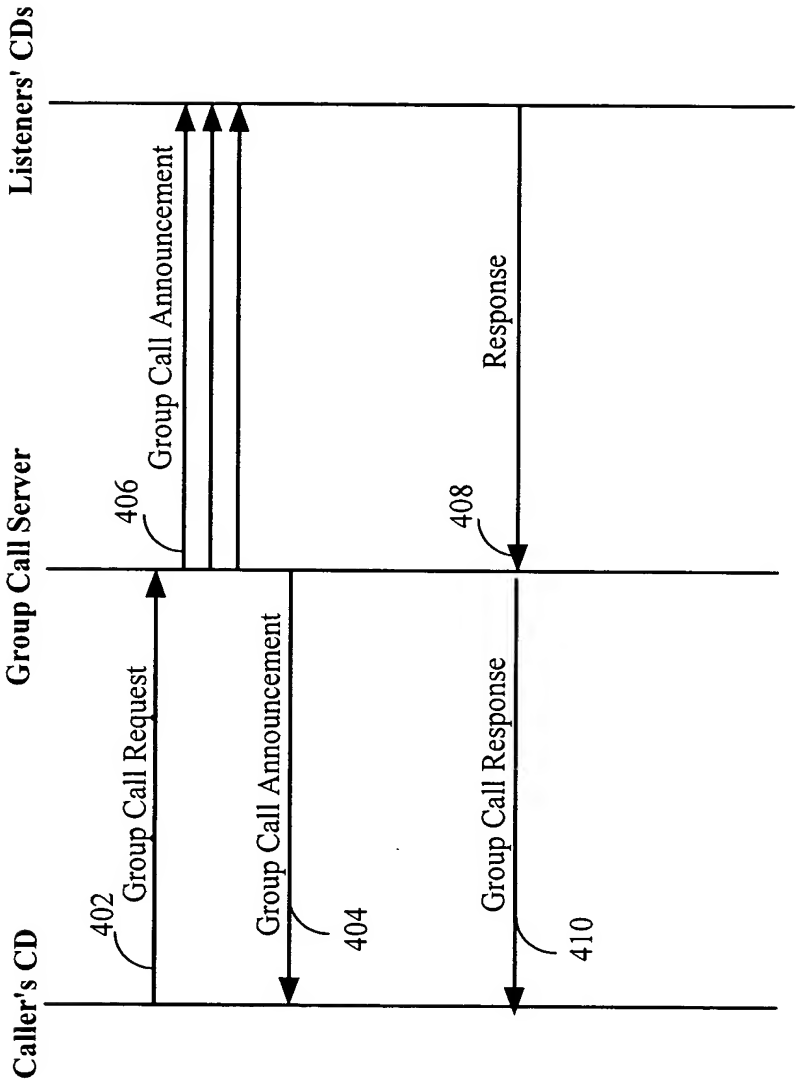

Caller's CD
Group Call Server
Listeners' CDs
Group Call Request
402
Group Call Announcement
406
Group Call Announcement
404
Response
408
Group Call Response
410

FIGURE 4

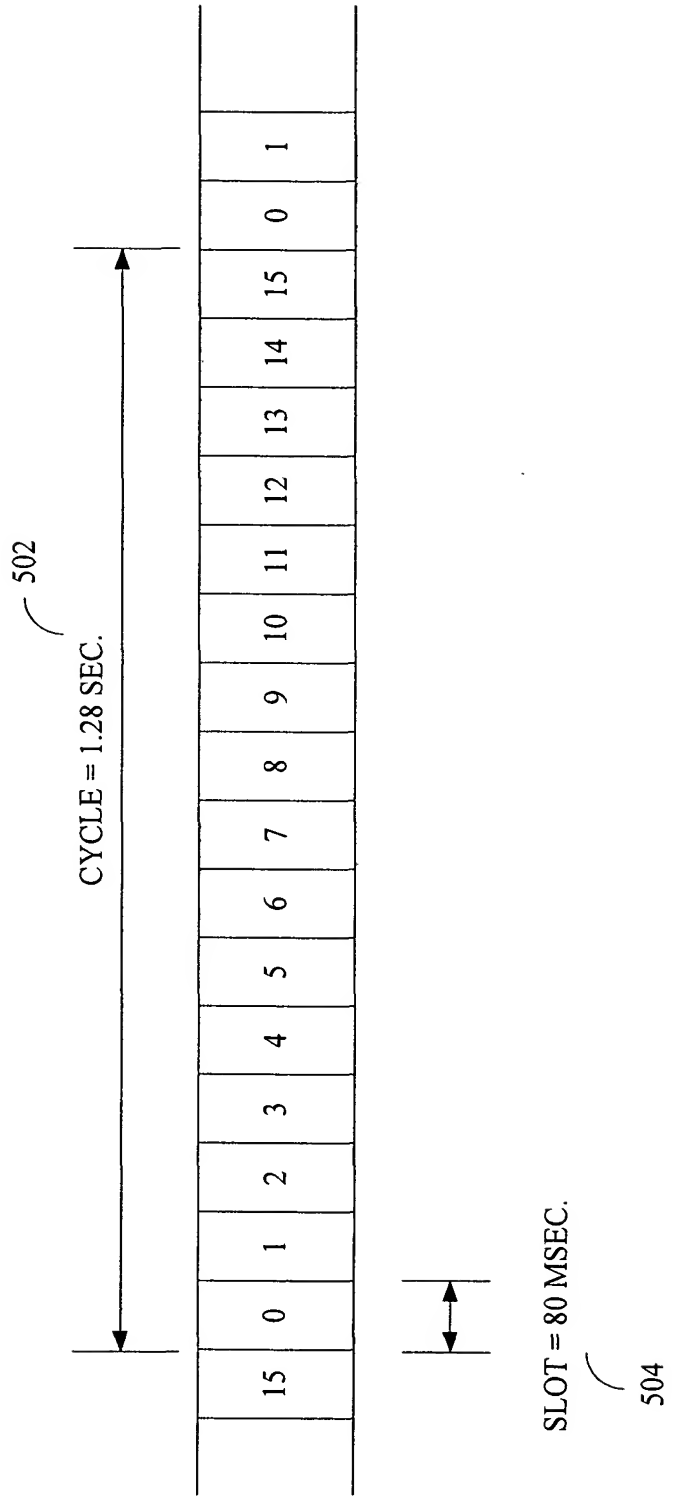

502
CYCLE = 1.28 SEC.
15
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
0
1
SLOT = 80 MSEC.
504

FIGURE 5

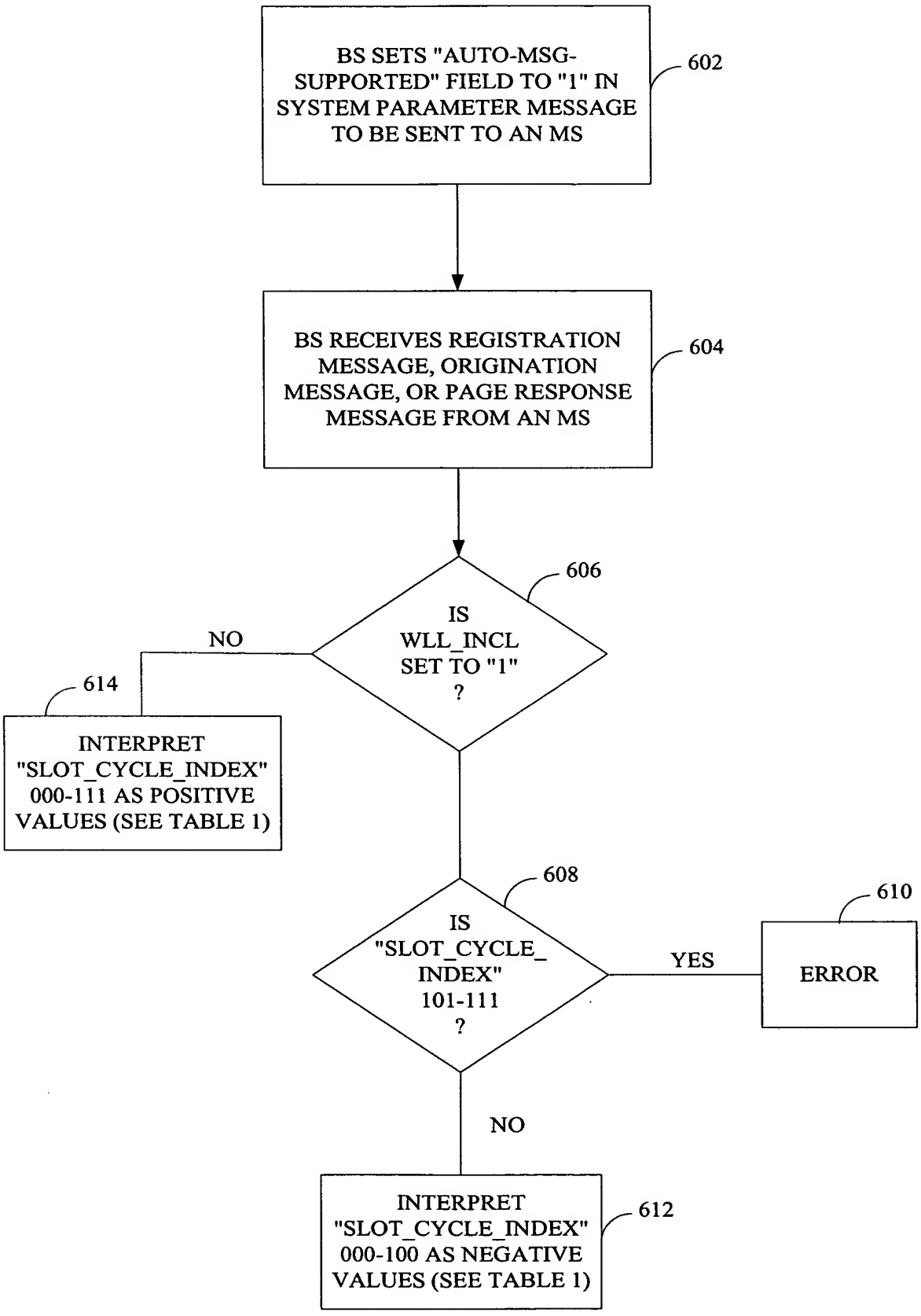

BS SETS "AUTO-MSG-SUPPORTED" FIELD TO "1" IN SYSTEM PARAMETER MESSAGE TO BE SENT TO AN MS
602
BS RECEIVES REGISTRATION MESSAGE, ORIGINATION MESSAGE, OR PAGE RESPONSE MESSAGE FROM AN MS
604
IS WLL_INCL SET TO "1" ?
606
NO
614
INTERPRET "SLOT_CYCLE_INDEX" 000-111 AS POSITIVE VALUES (SEE TABLE 1)
IS "SLOT_CYCLE_INDEX" 101-111 ?
608
YES
610
ERROR
NO
INTERPRET "SLOT_CYCLE_INDEX" 000-100 AS NEGATIVE VALUES (SEE TABLE 1)
612

FIGURE 6

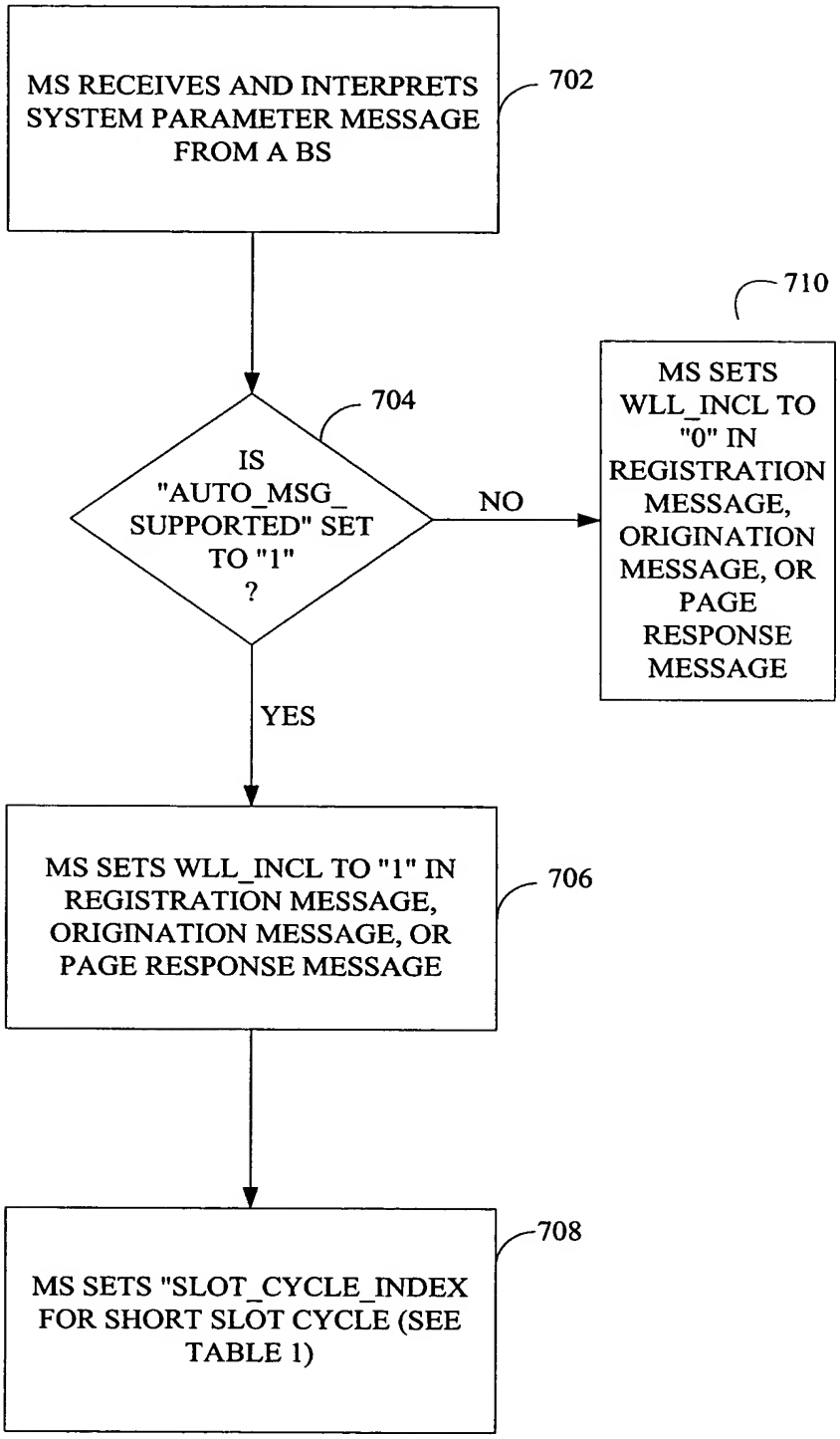

MS RECEIVES AND INTERPRETS SYSTEM PARAMETER MESSAGE FROM A BS
702
IS "AUTO_MSG_ SUPPORTED" SET TO "1" ?
704
NO
YES
MS SETS WLL_INCL TO "0" IN REGISTRATION MESSAGE, ORIGINATION MESSAGE, OR PAGE RESPONSE MESSAGE
710
MS SETS WLL_INCL TO "1" IN REGISTRATION MESSAGE, ORIGINATION MESSAGE, OR PAGE RESPONSE MESSAGE
706
MS SETS "SLOT_CYCLE_INDEX FOR SHORT SLOT CYCLE (SEE TABLE 1)
708

FIGURE 7

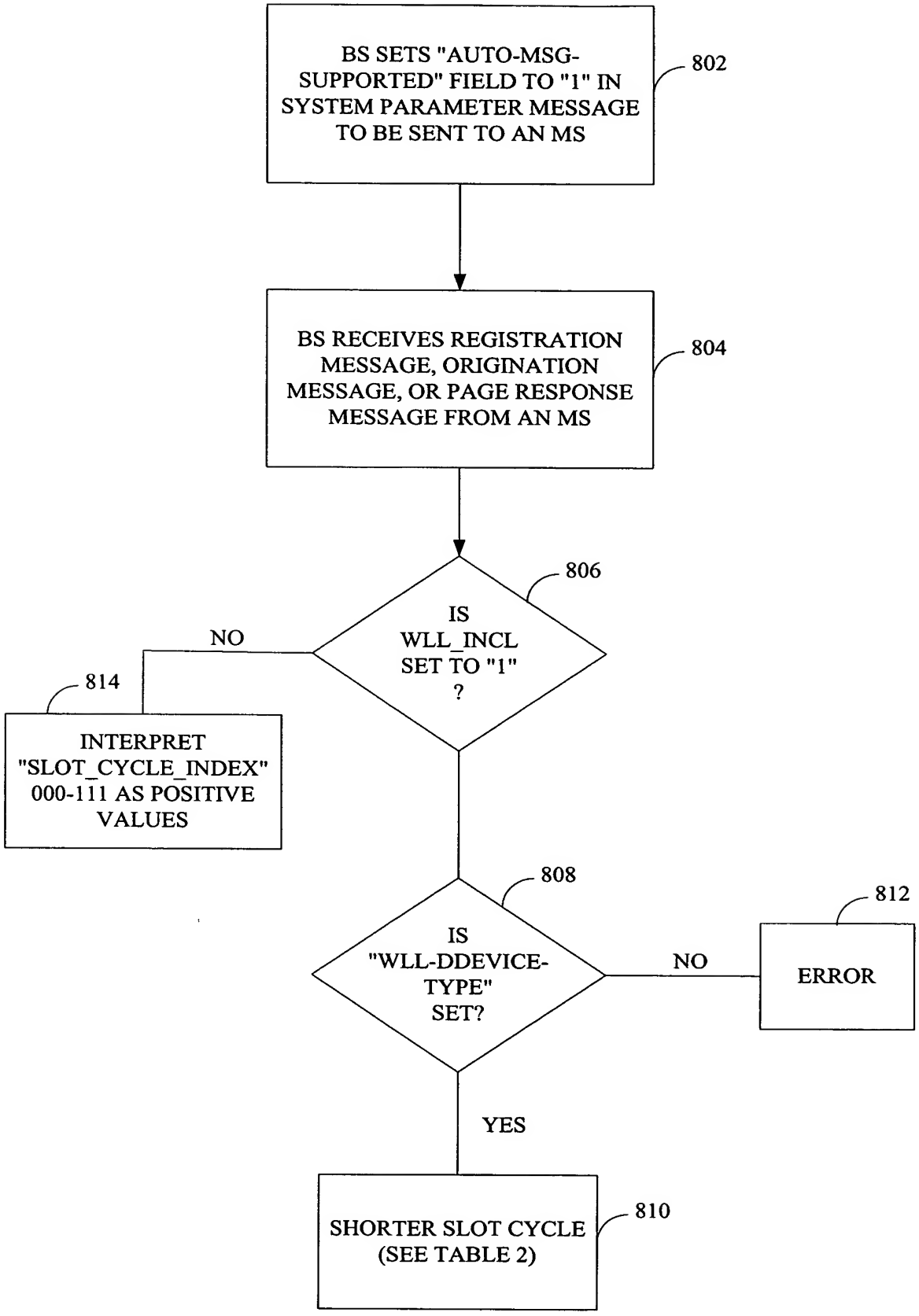

BS SETS "AUTO-MSG-SUPPORTED" FIELD TO "1" IN SYSTEM PARAMETER MESSAGE TO BE SENT TO AN MS
802
BS RECEIVES REGISTRATION MESSAGE, ORIGINATION MESSAGE, OR PAGE RESPONSE MESSAGE FROM AN MS
804
IS WLL_INCL SET TO "1" ?
806
NO
814
INTERPRET "SLOT_CYCLE_INDEX" 000-111 AS POSITIVE VALUES
IS "WLL-DDEVICE-TYPE" SET?
808
NO
812
ERROR
YES
SHORTER SLOT CYCLE (SEE TABLE 2)
810

FIGURE 8

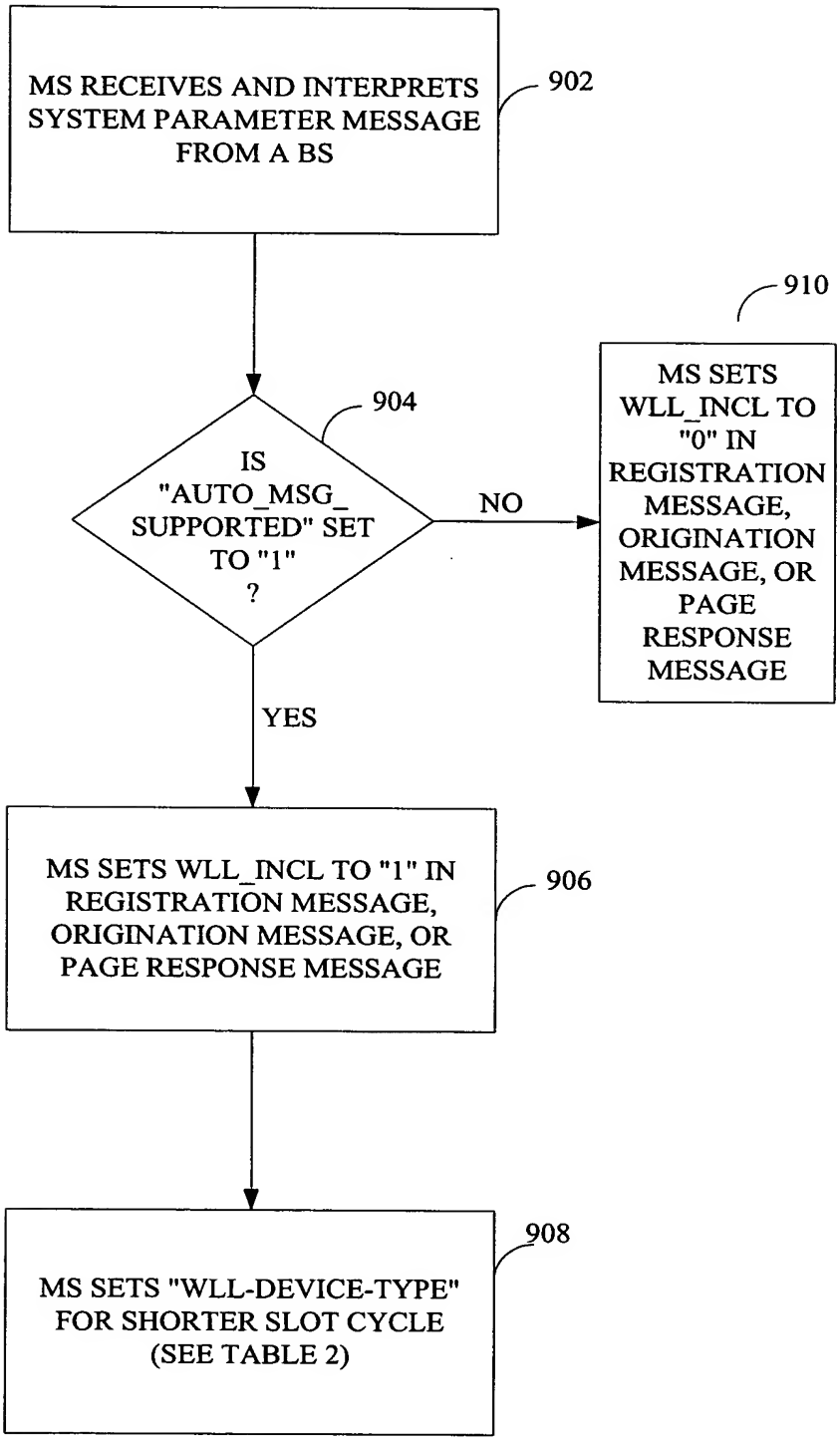

MS RECEIVES AND INTERPRETS SYSTEM PARAMETER MESSAGE FROM A BS
902
IS "AUTO_MSG_ SUPPORTED" SET TO "1" ?
904
NO
MS SETS WLL_INCL TO "0" IN REGISTRATION MESSAGE, ORIGINATION MESSAGE, OR PAGE RESPONSE MESSAGE
910
YES
MS SETS WLL_INCL TO "1" IN REGISTRATION MESSAGE, ORIGINATION MESSAGE, OR PAGE RESPONSE MESSAGE
906
MS SETS "WLL-DEVICE-TYPE" FOR SHORTER SLOT CYCLE (SEE TABLE 2)
908

FIGURE 9

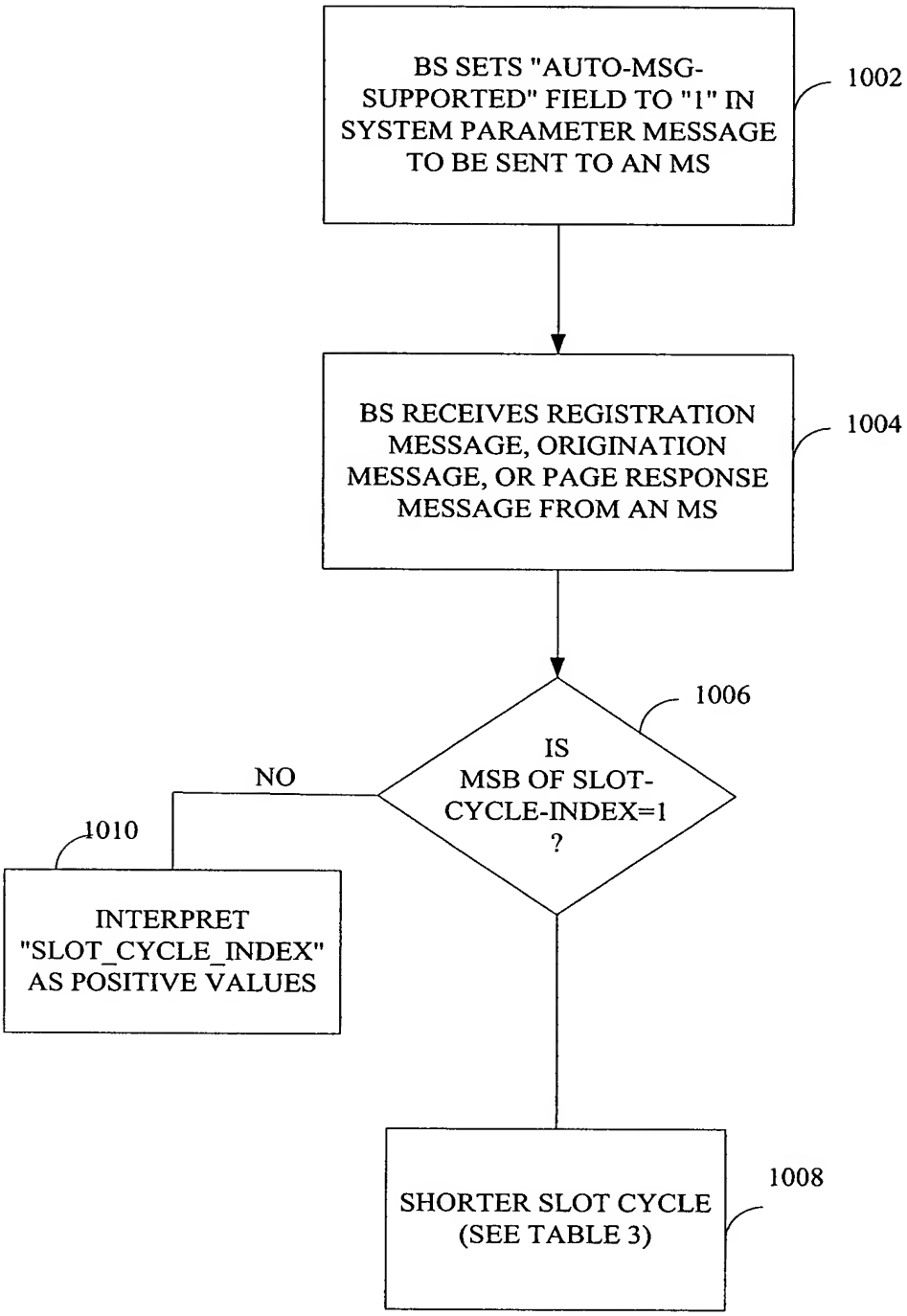

BS SETS "AUTO-MSG-SUPPORTED" FIELD TO "1" IN SYSTEM PARAMETER MESSAGE TO BE SENT TO AN MS
1002
BS RECEIVES REGISTRATION MESSAGE, ORIGINATION MESSAGE, OR PAGE RESPONSE MESSAGE FROM AN MS
1004
IS MSB OF SLOT-CYCLE-INDEX=1 ?
1006
NO
1010
INTERPRET "SLOT_CYCLE_INDEX" AS POSITIVE VALUES
SHORTER SLOT CYCLE (SEE TABLE 3)
1008

FIGURE 10

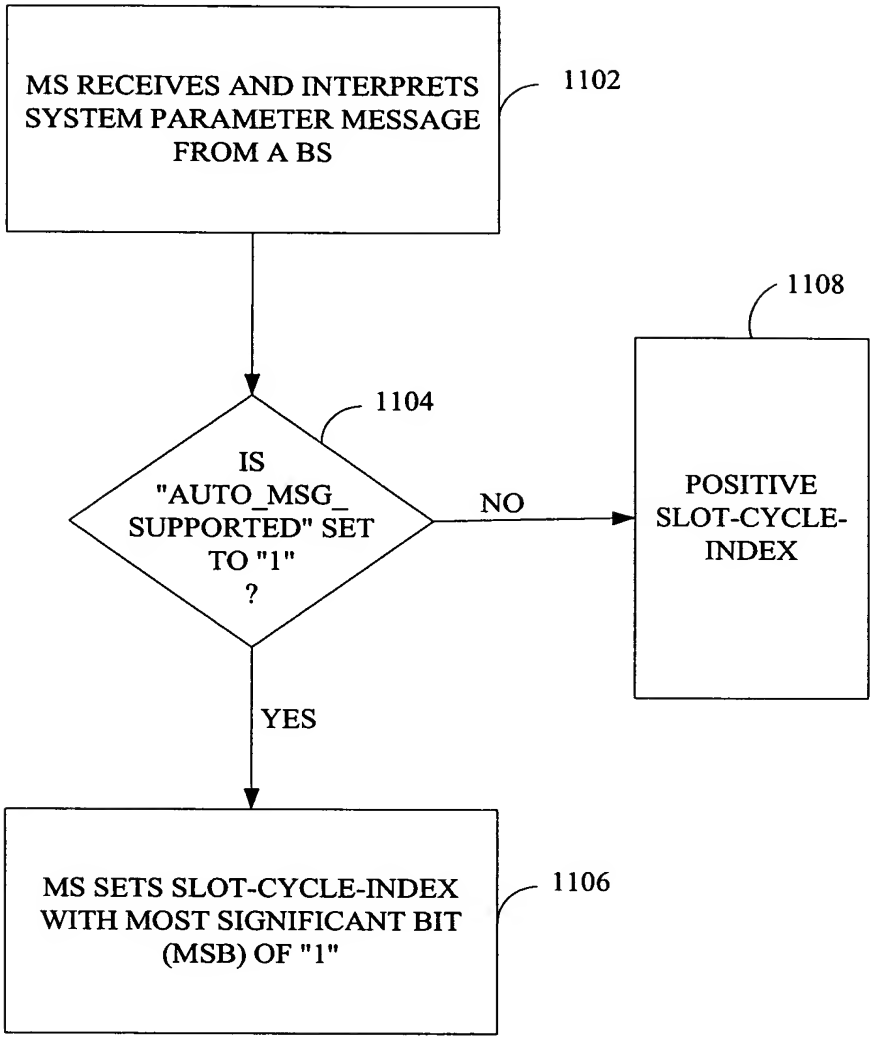

MS RECEIVES AND INTERPRETS SYSTEM PARAMETER MESSAGE FROM A BS
1102
1104
IS "AUTO_MSG_ SUPPORTED" SET TO "1" ?
NO
1108
POSITIVE SLOT-CYCLE-INDEX
YES
MS SETS SLOT-CYCLE-INDEX WITH MOST SIGNIFICANT BIT (MSB) OF "1"
1106

FIGURE 11